

In re Appln. of KIM et al.
Application No. 10/046,832

CLAIM AMENDMENTS

Claims 1-11 (Cancelled).

12. (Currently Amended) A plasma display panel comprising:
a rear substrate;
a front substrate spaced from the rear substrate and forming a discharge space between the rear and front substrates;
partition walls between the front and rear substrates and including
continuous main partition walls parallel to each other, having the same width, and arranged in stripes spaced from each other, and
auxiliary partition walls transverse to and connected to respective pairs of the main partition walls, each auxiliary partition wall having a uniform width, different auxiliary partition walls having respective, different widths, respective pairs of the main partition walls and respective pairs of the auxiliary partition walls defining and surrounding respective red, green, and blue discharge cells having coatings of respective fluorescent substances respectively producing red, green, and blue light, wherein the discharge cells have respective areas differing in accordance with ratios of efficiencies of light radiation by the respective fluorescent substances, the varying areas of the discharge cells being determined by respective widths of respective pairs of the auxiliary partition walls defining respective discharge cells;
address electrodes on the rear substrate and parallel to the auxiliary partition walls, ~~at least some~~ all of the auxiliary partition walls being disposed directly opposite a corresponding address-electrodes electrode; and
pairs of first and second electrodes disposed on respective pairs of the main partition walls and extending in a direction crossing the address electrodes.

13 (Cancelled).

14. (Previously Presented) The plasma display panel as claimed in claim 12, wherein the areas of discharge cells are inversely proportional to the ratios of efficiencies of light radiation of the respective fluorescent substances of the red, green, and blue discharge cells.

15. (Original) The plasma display panel as claimed in claim 12, wherein the blue discharge cell has a larger area than the areas of the red and green discharge cells.

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16. (Previously Presented) The plasma display panel as claimed in claim 12, wherein the first and second electrodes do not cover the discharge cells, and including first, second, and third transparent electrodes extending from the first and second electrodes over at least parts of the red, green, and blue discharge cells, respectively.

17. (Previously Presented) The plasma display panel as claimed in claim 16, wherein the areas of the first, second, and third transparent electrodes differ in accordance with the ratios of efficiencies of light radiation by the respective fluorescent substances of the red, green, and blue discharge cells where the first, second, and third transparent electrodes are respectively disposed.

18. (Previously Presented) The plasma display panel as claimed in claim 17, wherein the areas of the first, second, and third transparent electrodes are inversely proportional to the ratios of efficiencies of light radiation of the respective fluorescent substances of the red, green, and blue discharge cells.

19. (Original) The plasma display panel as claimed in claim 17, wherein the area of the third transparent electrode disposed partially over the blue discharge cell is larger than the areas of the first and second transparent electrodes.

20. (Currently Amendment) The plasma display panel as ~~claim~~ claimed in claim 17, wherein the areas of the first, second, and third transparent electrodes are in a ratio of ~~approximately~~ 0.65-0.7:0.9:1.

21. (Currently Amended) A plasma display panel comprising:
a rear substrate;
a front substrate spaced from the rear substrate and forming a discharge space between the rear and front substrates;
partition walls between the front and rear substrates and including
continuous main partition walls parallel to each other, having the same width, and arranged in stripes spaced from each other, and
auxiliary partition wall portions transverse to and connected to respective pairs of the main partition walls, the auxiliary wall portions being parallel and arranged in a staggered pattern so that at least one pair of auxiliary wall portions connected to

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opposite sides of one of the main partition walls are not aligned, each auxiliary partition wall portion having a uniform width, different auxiliary partition wall portions having respective, different widths, respective pairs of the main partition walls and respective pairs of the auxiliary partition wall portions defining and surrounding respective red, green, and blue discharge cells having coatings of respective fluorescent substances respectively producing red, green, and blue light, wherein the discharge cells have respective areas differing in accordance with ratios of efficiencies of light radiation by the respective fluorescent substances, the varying areas of the discharge cells being determined by respective widths of respective pairs of the auxiliary partition wall portions defining respective discharge cells;

address electrodes on the rear substrate and parallel to the auxiliary partition wall portions, all of the auxiliary wall portions being disposed directly opposite a corresponding address electrode; and

pairs of first and second electrodes disposed on respective pairs of the main partition walls and extending in a direction crossing the address electrodes.

22. (Previously Presented) The plasma display panel as claimed in claim 21, wherein the areas of discharge cells are inversely proportional to the ratios of efficiencies of light radiation of the respective fluorescent substances of the red, green, and blue discharge cells.

23. (Previously Presented) The plasma display panel as claimed in claim 21, wherein the blue discharge cell has a larger area than the areas of the red and green discharge cells.

24. (Previously Presented) The plasma display panel as claimed in claim 21, wherein the first and second electrodes do not cover the discharge cells, and including first, second, and third transparent electrodes extending from the first and second electrodes over at least parts of the red, green, and blue discharge cells, respectively.

25. (Previously Presented) The plasma display panel as claimed in claim 24, wherein the areas of the first, second, and third transparent electrodes differ in accordance with the ratios of efficiencies of light radiation by the respective fluorescent substances of the red, green, and blue discharge cells where the first, second, and third transparent electrodes are respectively disposed.

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26. (Previously Presented) The plasma display panel as claimed in claim 25, wherein the areas of the first, second, and third transparent electrodes are inversely proportional to the ratios of efficiencies of light radiation of the respective fluorescent substances of the red, green, and blue discharge cells.

27. (Previously Presented) The plasma display panel as claimed in claim 25, wherein the area of the third transparent electrode disposed partially over the blue discharge cell is larger than the areas of the first and second transparent electrodes.

28. (Currently Amended) The plasma display panel as ~~claim~~ claimed in claim 25, wherein the areas of the first, second, and third transparent electrodes are in a ratio of ~~approximately~~ 0.65-0.7:0.9:1.

29. (New) The plasma display panel as claimed in claim 12, wherein the address electrodes are arranged on the rear substrate at a uniform interval.

30. (New) The plasma display panel as claimed in claim 21, wherein the address electrodes are arranged on the rear substrate at a uniform interval.